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Product datasheet for TA500922

PSMC3 Mouse Monoclonal Antibody [Clone ID: OTI9F3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI9F3
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100, Flow 1:100
Reactivity:	Human, Dog, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PSMC3(NP_002795) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.58 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	49.2 kDa
Gene Name:	proteasome 26S subunit, ATPase 3
Database Link:	NP_002795 Entrez Gene 19182 MouseEntrez Gene 29677 RatEntrez Gene 475980 DogEntrez Gene 5702 Human P17980

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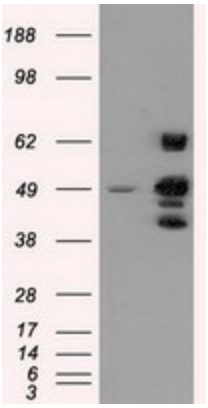
Background: The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits.Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases that have chaperone-like activity. This subunit may compete with PSMC2 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex. A pseudogene has been identified on chromosome 9.

Synonyms: DCIDP; RPT5; TBP1

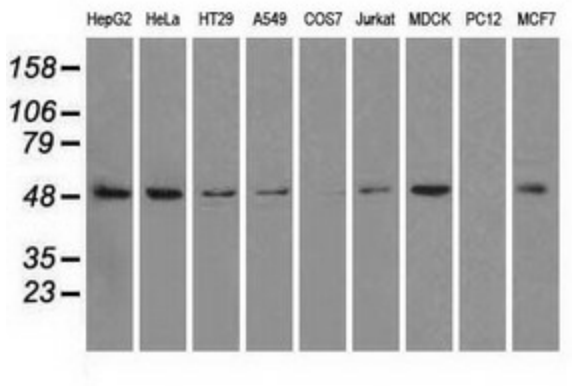
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Proteasome

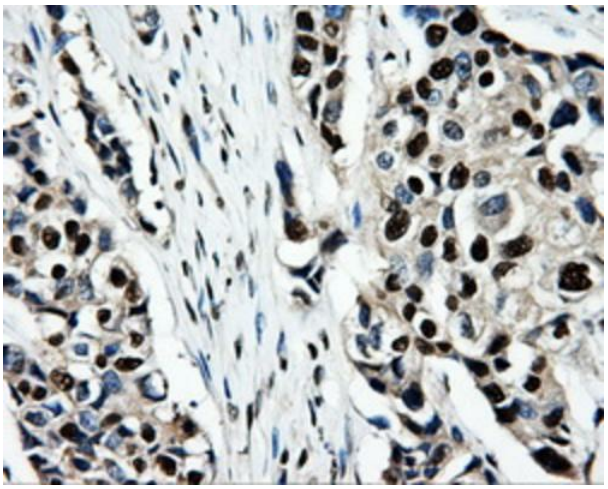
Product images:



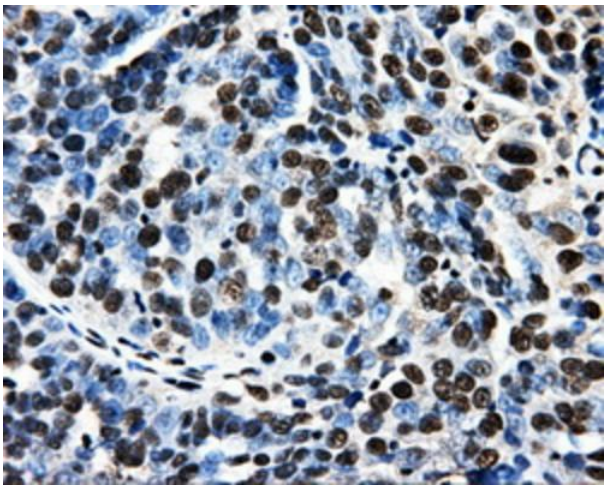
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PSMC3 (Cat# [RC201790], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PSMC3(Cat# TA500922). Positive lysates [LY400992] (100ug) and [LC400992] (20ug) can be purchased separately from OriGene.



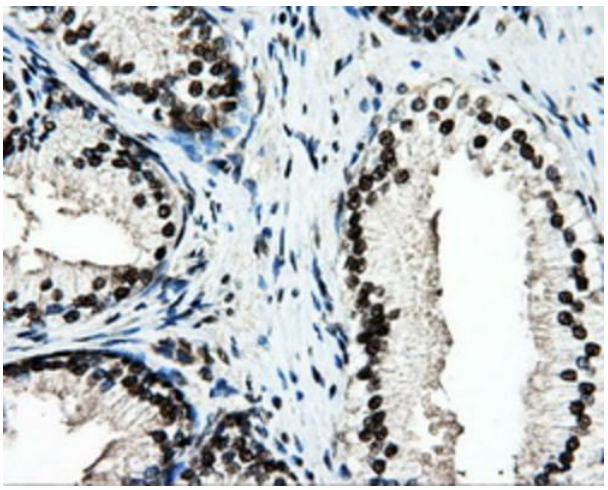
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PSMC3 monoclonal antibody.



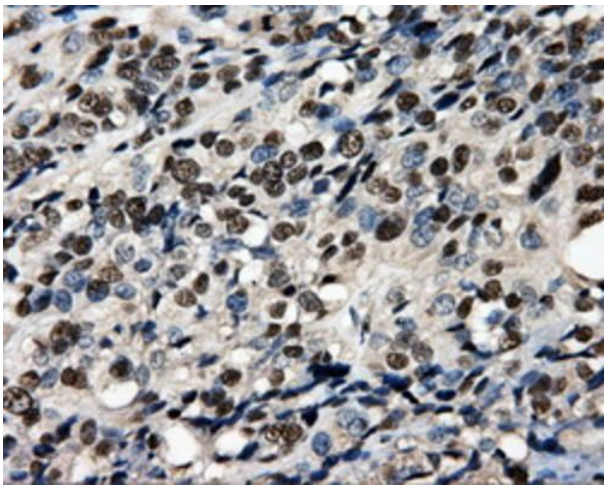
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of breast tissue using anti-PSMC3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



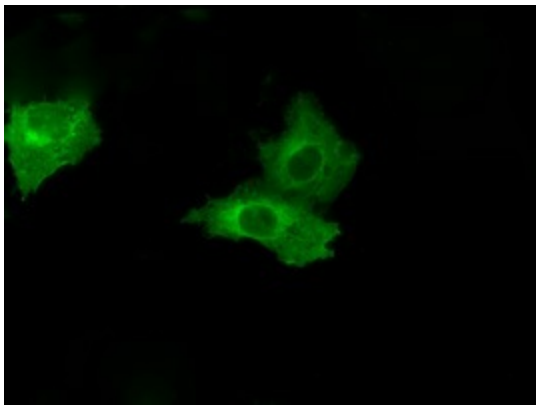
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-PSMC3mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



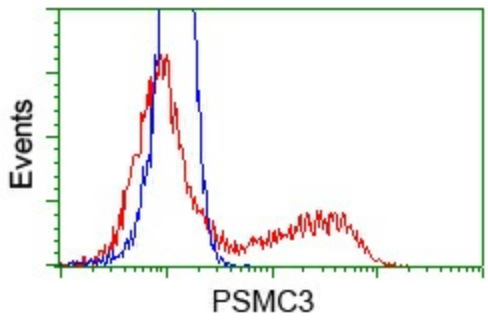
Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-PSMC3mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



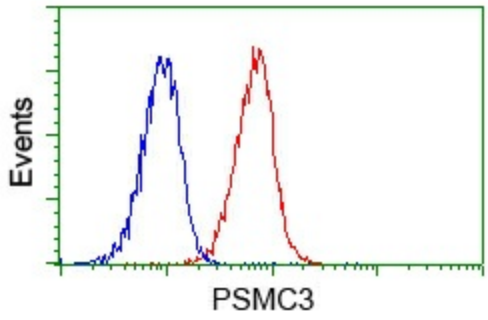
Immunohistochemical staining of paraffin-embedded Carcinoma of bladder tissue using anti-PSMC3mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-PSMC3 mouse monoclonal antibody (TA500922) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PSMC3 ([RC201790]).



HEK293T cells transfected with either pCMV6-ENTRY PSMC3 ([RC201790]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-PSMC3 mouse monoclonal (TA500922), and then analyzed by flow cytometry.



Flow cytometric analysis of Jurkat cells, using anti-PSMC3 antibody (TA500922), (Red) compared to a nonspecific negative control antibody (TA50011) (Blue).